

10 Rec'd PCT 12-1 2005

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 27338	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/IL04/00057	International filing date (<i>day/month/year</i>) 21 January 2004 (21.01.2004)	(Earliest) Priority Date (<i>day/month/year</i>) 22 January 2003 (22.01.2003)
Applicant IST ENGINEERING LTD.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. 1



as suggested by the applicant.



None of the figures



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00057

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

Apparatus for analyzing light having at least one wavelength, the apparatus having a light deflector (12) for deflecting the light to provide a deflected light beam characterized by at least one wavelength dependent angle corresponding to the at least one wavelength of light, and encoder (20) capable of encoding the deflected light beam so as to provide an encoded light beam characterized by at least one angle dependent polarization state corresponding to the at least one wavelength-dependent angle; and a decoder (24) for decoding the encoded light beam to determine at least one spectral component of the light.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00057

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01J 3/02, 3/42
US CL : 356/310,326-328,330

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 356/310,326-328,330

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,031,609 A (FUNK et al.) 29 February 2000 (29-02-2000), see entire document.	1-3, 6-7, 30, 33, 43, 45-46, 52-54, 56-68, 70-74, 77-79, 83, 93, 105, 109, 115-117, 120, 126-127, 128, 132, 155, 167, 177- 179, 247, 250-252, 255-257, 289-290, 294, 303, 313-315, 319-320, 321-324, 327-329, 343- 344, 346-348, 357, 367-369, 373, 379, 405, 414, 424-426 ----- 108, 170, 306, 310, 360-361, 417, 421



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

23 July 2004 (23.07.2004)

Date of mailing of the international search report

13 MAY 2005

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,002,479 A (BARWICZ et al.) 14 December 199 (14-12-199), see entire document	108, 170, 306, 310, 360-361, 417, 421

INTERNATIONAL SEARCH REPORT

PCT/IL04/00057

Continuation of B. FIELDS SEARCHED Item 3:

EAST

search terms: polarization, spectral, prism, grating, dispersive, encode, decode